Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS IT ORRING A GENE ASSOCIATED WITH A DETE Inventors: Nicholas SCHOF Assignee: Genset Corporation:

Our Ref.: 55.US4.DIV
1/31

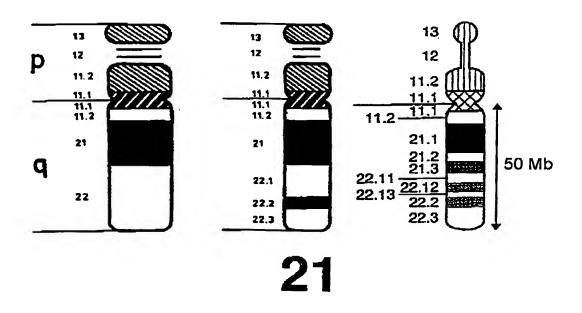
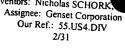


Figure 1

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HAS SING A GENE ASSOCIATED WITH A DETECT Inventors: Nicholas SCHORK.



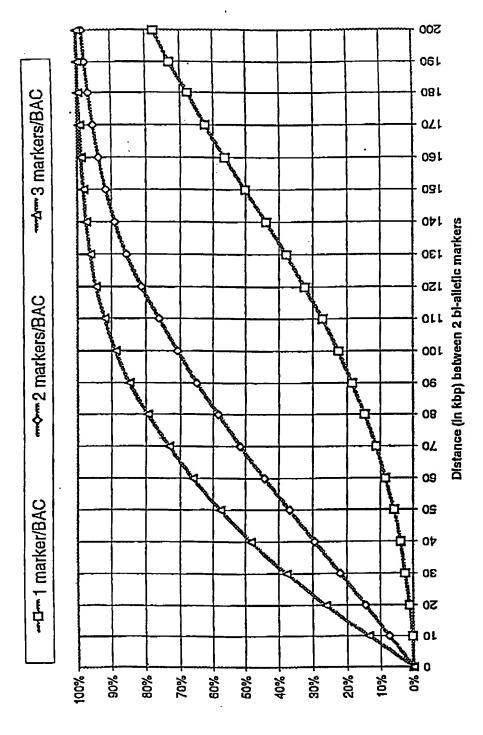
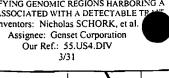
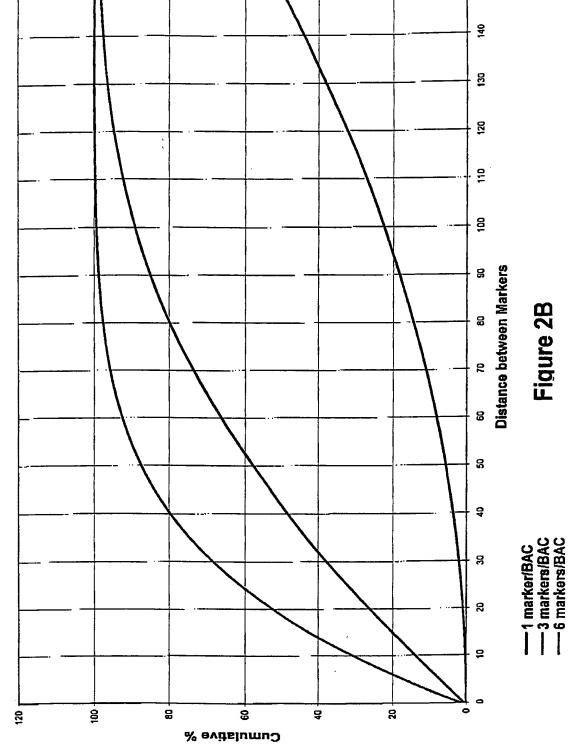


Figure 2A

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAINING Inventors: Nicholas SCHORK, et al.





Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTA Inventors: Nicholas SCHORK. Assignee: Genset Corporation Our Ref.: 55.US4.DIV

## LD in a random French caucasian population

- 54 sized « random » BACs covering 8100 kb
- 213 SNP; 2 to 6 / BAC, mean allele frequency = 0.3
- Order and distance unknown
- For 1 BAC:

130 kb

- \*  $\overline{m}$  intermarker distance : 130/3 = 43 kb
- \*  $\overline{m}$  LD strength estimate : m(a,b,c) = 0.51
- For 54 BACs:
- \*  $\overline{m}$  intermarker distance = 38 kb
- \*  $\overline{m}$  LD strength estimate =  $0.63 \pm 0.05$ (324 pairs)
- For 19 unlinked SNPs: m LD strength estimate =  $0.12 \pm 0.007$ (171 pairs)

Figure 2c

Title: METHODS, SOFTWARE AND APPA IDENTIFYING GENOMIC REGIONS HARL GENE ASSOCIATED WITH A DETECTABLE Inventors: Nicholas SCHORK, et al. Assignee: Genset Corporation Our Ref.: 55.US4.DIV 5/31

## p-VALUE DISTRIBUTION

#aff	150						
# non aff	150						
	pAi non aff	0	1,0	0,2	6,0	0,4	6,0
Δ pAi	0,05	8,77E-05	0,06407752	0,06407752 0,14252002 0,19106311 0,21543442	0,19106311	0,21543442	0,22009395
∆ pAi	0,1	1,91E-08	0,00060364	0,00060364 0,00467774	0,01023571 0,01382303	0,01382303	0,01382303
∆ pAi	0,15	3,06E-12	1,3318E-06	3,8827E-05	0,0001478	0,0002343	0,00020218
∆ pAi	0,2	3,22E-16	9,1413E-10	9,0305E-08	5,733E-07	9,6336E-07	5,733E-07
∆ pAi	0,25	2,08E-20	2,2614E-13	2,2614E-13 6,2679E-11	5,873E-10	5,873E-10 8,7113E-10	2,5396E-10
∆ pAi	6,0	7,82E-25	2,152E-17	1	1,3261E-14 1,5189E-13 1,5189E-13	1,5189E-13	1,3261E-14
∆ pAi	0,35	1,62E-29	7,9823E-22	8,4152E-19 9,1669E-18 4,2713E-18	9,1669E-18	4,2713E-18	5,5844E-20
Δ pAi	0,4	1,73E-34	1,1282E-26		1,524E-23 1,1488E-22	1,524E-23	1,1282E-26

#aff	200						
# non aff	200						
	pAi non aff	0	0,1	0,2	6'0	0,4	0,5
∆ pAi	0,05		5,92E-06 0,03250945	0,09039173	0,13111935	0,13111935 0,15260313 0,15678006	0,15678006
Δ pAi	0,1	8,65E-11	7,4765E-05	0,00109084	0,00302686	0,00447365	0,00447365
Δ pAi	0,15	8,02E-16	2,3653E-08	2,0257E-06	-	1,1771E-05 2,1573E-05	1,7772E-05
∆ pAi	0,2	4,18E-21	1,5375E-12	6,7374E-10	7,764E-09	1,5417E-08	7,764E-09
∆ pAi	0,25	1,13E-26	2,525E-17		4,4025E-14 8,5532E-13	1,4423E-12	2,8149E-13
∆ pAi	6'0	1,47E-32	1,1488E-22	5,8424E-19	1,4886E-17	1,4886E-17	5,8424E-19
ΔpAi	36,0	8,62E-39	1,4784E-28	1,5457E-24	3,6958E-23	1,3394E-23	4,197E-26
∆ pAi	0,4	0,4 2,09E-45	5,2308E-35		1,1224E-29	7,6438E-31 1,1224E-29 7,6438E-31	5,2308E-35

affected individuals non affected Individuals # non aff #aff

allele frequency in non affected individuals % Difference in allele frequency between affected and non-affected individuals

pAi non aff A pAi Figure 3 (I)

Title: METHODS, SOFTWARE AND APPARIDENTIFYING GENOMIC REGIONS HAR GENE ASSOCIATED WITH A DETECTAL Inventors: Nicholas SCHORK, et al. Assignee: Genset Corporation
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# aff	500						
# non aff	200						
	pAi non aff	0	0,1	0,2	6,0	0,4	6,0
Δ pAi	20'0	8E-13	0,00072323	0,00741965	0,0169842	0,02371865	0,02516449
∆ pAi	1'0	1,07E-24	3,7948E-10	2,4176E-07	2,7579E-06	6,9679E-06	6,9679E-06
∆ pAi	0,15	3,81E-37	1,0719E-18	5,8344E-14	4,2622E-12	1,8601E-11	1,1611E-11
Δ pAi	0,2	2,96E-50	5,0895E-29	1,6881E-22	6,9321E-20	3,7441E-19	6,9321E-20
∆ pAi	0,25	4,27E-64	7,2043E-41	7,7528E-33	1,194E-29	4,3462E-29	7,6438E-31
∆ pAi	6,0	9,7E-79	3,9328E-54	6,3017E-45	1,9429E-41	1,9429E-41	6,3017E-45
∆ pAi	96,0	2,91E-94	8,8513E-69	8,7879E-59	2,3478E-55	1,8839E-56	1,1206E-62
∆ pAi	0,4	9,5E-111	7,7199E-85	1,8063E-74	1,4484E-71	1,8063E-74	7,7199E-85
#aff	160						
# non aff	850			,			
	pAi non aff	0	0,1	0,2	0,3	0,4	0,5
∆ pAi	90'0	2,16E-20	0,00994614	0,04896055	0,08358651	0,10417953	0,11025423
∆ pAi	0,1	2,01E-39	5,571E-07	0,00010149	0,00058665	0,00119145	0,00139743
∆ pAi	0,15	1,11E-58	2,7555E-13	8,462E-09	2,9851E-07	1,2395E-06	1,6229E-06
∆ pAi	0,2	3,27E-78	2,1683E-21	3,2211E-14	1,1049E-11	1,111E-10	1,5638E-10
∆ pAi	0,25	4,96E-98	4,4952E-31	6,5226E-21	3,1015E-17	2,5169E-16	1,1763E-15
∆ pAi	6,0	3,7E-118	3,6987E-42	8,129E-29	6,9335E-24	5,4331E-22	6,5657E-22
Δ pAi	0,35	1,4E-138	1,6797E-54	7,1058E-38	1,2938E-31	2,8415E-29	2,5869E-29
∆ pAi	0,4	2,4E-159	5,4915E-68	4,8846E-48	2,1003E-40	1,3332E-37	6,8178E-38

affected individuals non affected individuals # non aff #aff

pAi non aff

allele frequency in non affected individuals % Difference in allele frequency between affected and non-affected individuals

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Assignee: Genset Corporation
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## p-VALUE DISTRIBUTION

ж ап	2007						
# non aff	200						
	pAi non aff	0	1,0	0'5	6'0	0,4	0,5'
Δ pAi	90'0	1,08E-12	- 1	0,00789803 0,03942584	0,06867566	0,06867566 0,08621572 0,09083704	0,09083704
∆ pAi	0,1	3,45E-24	4,4217E-07	5,6883E-05	0,00031976	0,0006363	0,00070881
Δ pAi	0,15	5,9E-36	4,3025E-13		3,3635E-09 9,2134E-08	3,319E-07	3,5871E-07
∆ pAi	0,2	4,73E-48	1,5566E-20	1,0346E-14	1,0346E-14 1,7218E-12	1	1,1512E-11 - 1,0047E-11
∆ pAi	0,25	1,67E-60	3,5436E-29	2,0473E-21	2,2178E-18	1,1498E-17	1,3524E-17
∆ pAi	6'0	2,46E-73	7,2498E-39	3,0748E-29	2,0601E-25 3,4525E-24	3,4525E-24	7,4807E-25
Δ pAi	35'0	1,44E-86	1,6945E-49	3,9559E-38 1,4118E-33	1,4118E-33	2,662E-32	1,4118E-33
Δ pAi	0,4	3,2E-100	5,3051E-61	4,7325E-48 7,1282E-43 1,0691E-41	7,1282E-43	1,0691E-41	7,2652E-44

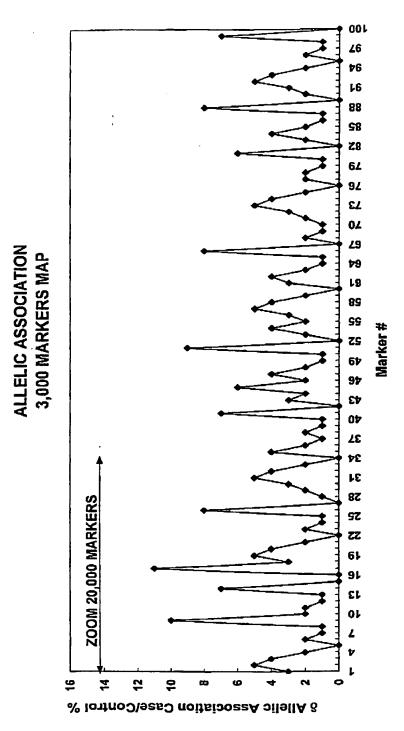
#aff	200						
# non aff	1000			i	:		
	pAi non aff	0	0,1	0,2	6,0	4,0	0,5
∆ pAi	20'0	6,48E-24	5,7827E-05	0,00172627	0,00551541	0,00882876	0,00978249
Δ pAi	0,1	6,53E-47	3,065E-14	1,0301E-09	4,3205E-08	1,8833E-07	2,2731E-07
∆ pAi	0,15	1,2E-70	2,0716E-27	3,7441E-19	4,6626E-16	6,9719E-15	6,9719E-15
Δ pAi	0,2	3,33E-95	1,1636E-43	1,6614E-31	8,5632E-27	4,1421E-25	1,9885E-25
∆ pAi	0,25	1,2E-120	1,7683E-62	1,5329E-46	3,1722E-40	3,1722E-40 8,6765E-39	3,6071E-39
Δ pAi	6'0	5,3E-147	1,526E-83	4,2697E-64	2,5968E-56	3,9328E-54	2,5968E-56
∆ pAi	32'0	2,4E-174	1,184E-108		4,5658E-84 4,7426E-75	4,2624E-73	4,0958E-77
Δ pAi	0,4	9,4E-203	1,082E-131		1,8014E-96	2,137E-106 1,8014E-96 3,3252E-95	6,725E-102

affected individuals non affected individuals #aff #nonaff

pAi non aff ∆ pAi

allele frequency in non affected Individuals % Difference in allele frequency between affected and non-affected individuals

Figure 3 (III)



Title: METHODS. SOFTWARE AND ATI FOR IDENTIFYING GENOMIC REGIONS HARDORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHORK, et al.

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Title: METHODS. SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHORK, et al.

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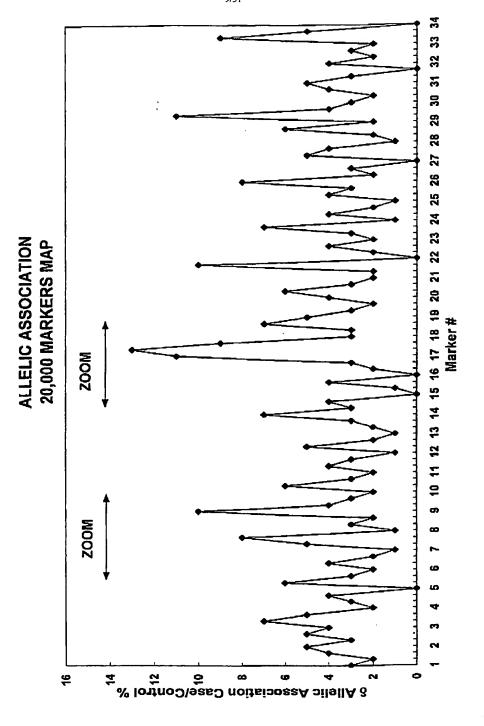
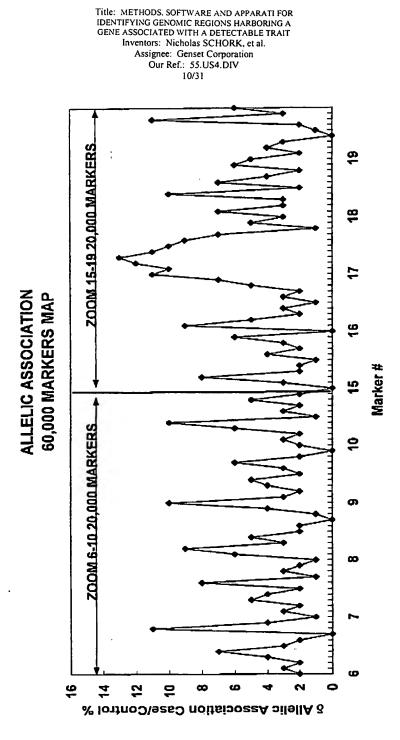


Figure 5



Title: METHODS. SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHORK, et al. Assignee: Genset Corporation Our Ref.: 55.US4.DIV

## APO E REGION HAPLOTYPE FREQUENCY ANALYSIS

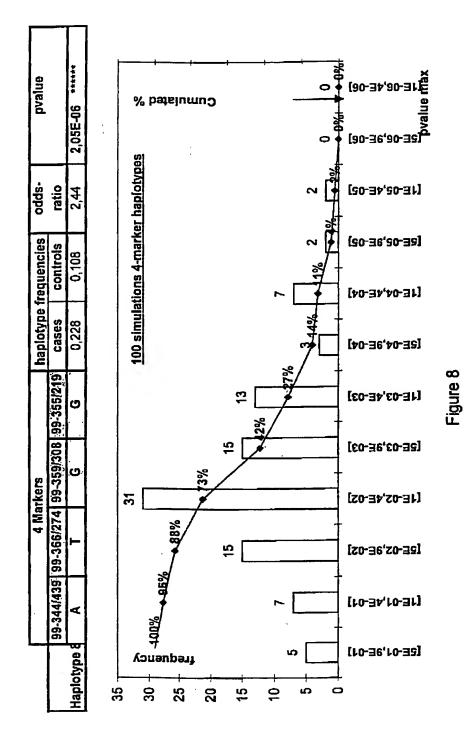
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	<b>SES</b> (22)
	<b>CASES</b> (22)
	CASES (225) AD CONTROLS (248)
	AD CASES (22
	AD CASES (225)
	AD CASES (22
	ΑD
	POPULATIONS   AD CASES (22

P value		3,05E-03 ***	1,24E-01 *	2,83E-02 **	5,95E-02 **	1,64E-02 **	3,59E-01 *	4,76E-05 ****	2,05E-06 *****
-sppo	ratio	1,52	1,29	1,36	1,36	١,70	1,19	2,09	2,44
haplotype frequencies	controls	806,0	0,165	906'0	0,209	0,071	0,129	0,122	0,108
haplotype	cases	0,404	0,203	9/8/0	0,264	0,115	0,15	0,225	0,228
99-355	1,38E-01			ဗ		∢	∢	ဟ	o
89-328	6,63E-01		∢	O	∢			တ	<u>ග</u>
99-344	1,11E-01	ပ	ပ			Ø			∢
99-366	3,01E-01	ပ			ပ		ပ	H	۲
markers	p value	haplotype 1	haplotype 2	haplotype 3	haplotype 4	haplotype 5	haplotype 6	haplotype 7	haplotype 8

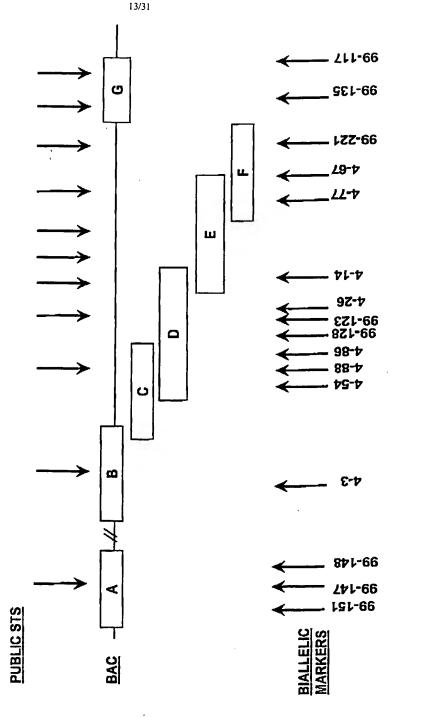
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Assignee: Genset Corporation
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APO E REGION HAPLOTYPE SIMULATION POPULATION: 225 CASES vs 248 CONTROLS



Title: METHODS. SOFTWARE AND APPAR ASSESSOR IDENTIFYING GENOMIC REGIONS HARE GENE ASSOCIATED WITH A DETECTAB Inventors: Nicholas SCHORK, et al. Assignee: Genset Corporation
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Title: METHODS. SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTIVE TRAIT Inventors: Nicholas SCHOT Assignee: Genset Corpor Our Ref.: 55.US4.DIV

PROSTATE CANCER ASSOCIATION STUDIES (FIRST SCREENING)

Population	PROSTATE CANCER	NON AFFECTED
Sample size	CASES = 112	CONTROLS=76
Population	35 sporadic cases	> 65 years
Characteristics	+ 77 familial cases	PSA<4

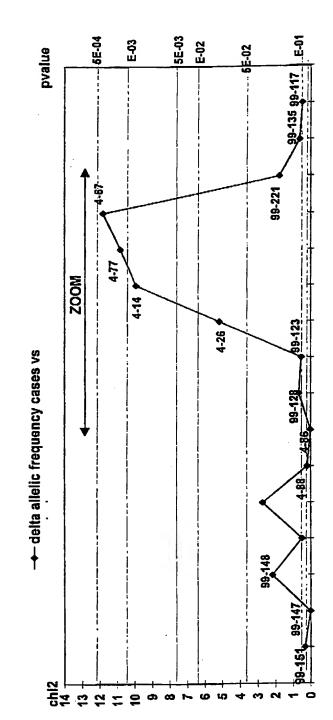
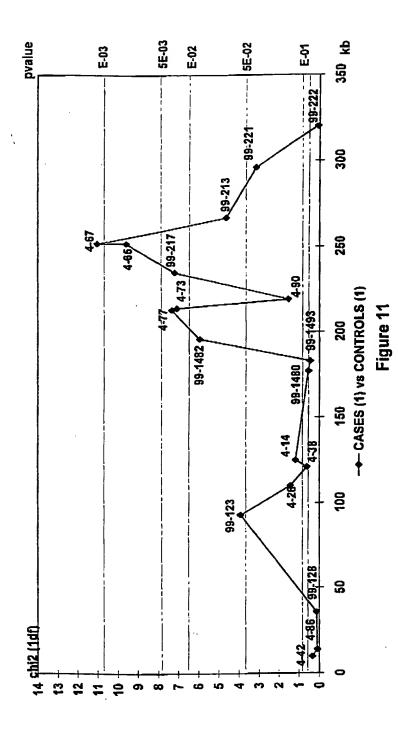


Figure 10

Title: METHODS. SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECT OF TRAIT Inventors: Nicholas SCHOR Assignee: Genset Corpora Our Ref.: 55.US4.DIV

# PROSTATE CANCER ASSOCIATION STUDIES (ZOOM)

	PROSTATE CANCER	NON-AFFECTED
	<b>CASES</b> (185)	CONTROLS (104)
characteristics	47 sporadic cases	> 65 years
of populations	+ 138 familial cases	PSA<4



Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHORK, et al.

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## PROSTATE CANCER HAPLOTYPE FREQUENCY ANALYSIS

	PROSTATE CANCER	NON-AFFECTED
	CASES (281)	CONTROLS (130)
characteristics	143 sporadic cases	> 65 years
of populations	+ 138 familial cases	PSA<4

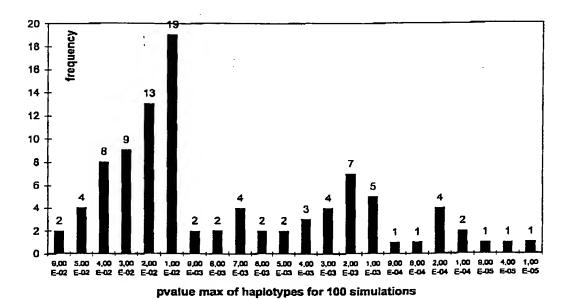
pvalue			9,00E-04 ***	6,00E-05 ***	1,00E-05 ***	9,00E-07 mems	2,00E-05 ****	2,00E-05 ****	4,00E-05 ****	2,00E-04 ****	1,00E-04 ***	3,00E-04 ***	6,00E-04 •**
relative	risk		4,42	6,46	6,78	10,06	5,17	4,78	2,33	2,17	26'2	2,01	2,05
encles		controls	0,018	0,016	0,019	0,013	0,025	0,027	0,109	0,134	0,112	0,148	0,129
		SBSBS	0,075	90'0	0,116	0,117	0,117	0,117	0,222	0,251	0,226	0,256	0,233
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B018		1,00E-01	4	⋖	∢								
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bacs	saueB	p value	haplotype B >304kb<	haplotype 7 >286kb<	haplotype 6 <186kb>	haplotype 5 <171kb>	haplotype 4 <83kb>	haplotype 3.1 <54kb>	haplotype 3.2 <54kb>	haplotype 2.2 <39kb>	haplotype 2 <32kb>	haplotype 1.1 <17 kb>	haplotype 1.2 <15 kb>
	H0287B09 B0189E08 Relative R0463F01 R0725B12 frequencles relative	H0287809         B0189E08         B0483F01         B0725B12         frequencies         relative           <	H0287B09   B0189E08   B0463F01   B0725B12   frequencies relative risk   C00E-01   1,00E-01   1,00	H0287809   B0189E08   B0463F01   B0725B12   frequencies relative pvall.   C A C G T T T C A A O 075   0,018   4,42   9,00E-04	H0287B09   B0189E08   B0463F01   B0725B12   frequencies relative pvall.   H0287B09   B0189E08   Fish controls   Fish control	H0287B09   B0189E08   Controls   B0463F01   B0725B12   Trequencies   Fisk   F	H0287B09   B0189E08   Controls   H0287B09   B0189E08   Controls   Controls	H0287B09   B0189E08   Controls   H0287B09   B0189E08   Controls   Frequencies   Freq	H0287B09   B0189E08   Common PG1	H0287B09  B0189E08	H0287B09   B0189E08   B0463F01   H0287B09   B0189E08   Frequencies   F	H0287B09   B0189E08   B0485F01   B0725B12   frequencies   relative   pvallu	H0287B09   B0189E08   B0463F01   B0725B12   frequencies relative positive common relative positive common relative positive common relative positive common relative common

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS PRING A GENE ASSOCIATED WITH A DETECTION TRAIT Inventors: Nicholas SCHOR Assignee: Genset Corporation
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## PROSTATE CANCER HAPLOTYPE SIMULATIONS (100 ITERATIONS)

							haplotype f	requencies	relative	pvalue
markers	4-14	4-77	99-217	4-67	99-213	99-221	cases	controls	risk	
haplotype	С	G	T	T	G	Α	0,117	0,013	10,06	9,00E-07



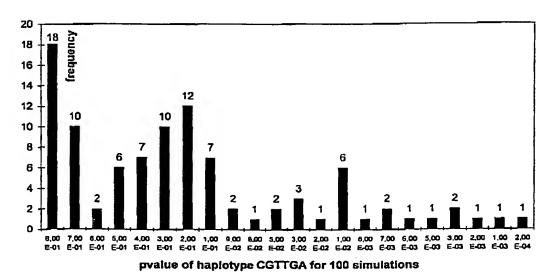


Figure 13

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTION OF THE TRAIT Inventors: Nicholas SCHO

Assignee: Genset Corpor

Our Ref.: 55.US4.DIV

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## AVERAGE LD PATTERN GENOMIC HETEROGENEITY

Recombination rate	Lower	Higher	
	A	В	
Nb markers	89	69	
All SNP	0.61 (749)	0.42 (1190)	
Rare < 0.2 Rare vs rare	0.75 (65)	0.17 (158)	
Frequent > 0.2 Frequent vs frequent	0.51 (410)	0.49 (544)	
Rare vs frequent	0.72 (274)	0.41 (488)	

FIGURE 14

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECT:

Inventors: Nicholas SCHORK
Assignee: Genset Corporation
Our Ref.: 55.US4.DIV
19/31

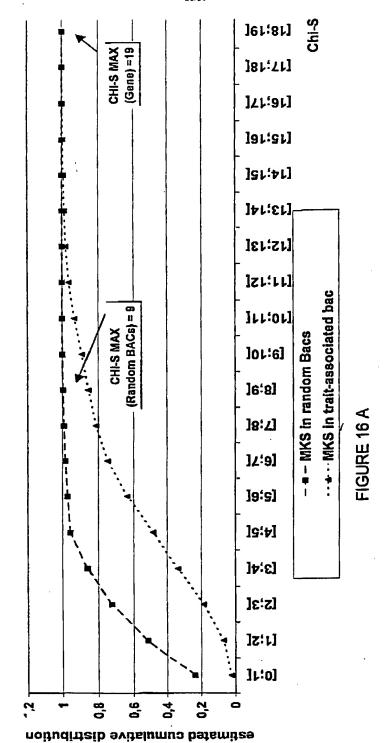
## Exonic/nonexonic LD

	Nb pairs	Average intermarker distance	Average LD
Exonic SNPs	36	26 kb	0.65±0.021
Non exonic SNPs	60	36 kb	0.48±0.018
Exonic/Non exonic	96	32 kb	0.60±0.015

## FIGURE 15

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHOR

Assignee: Genset Corpor Our Ref.: 55.US4.DIV 20/31



Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTION OF THE TRAIT Inventors: Nicholas SCHOLASsignee: Genset Corpor Our Ref.: 55.US4.DIV 21/31

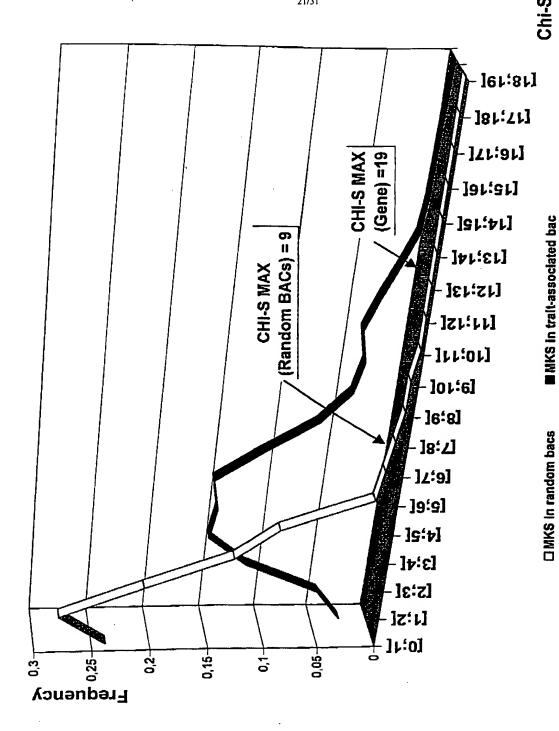
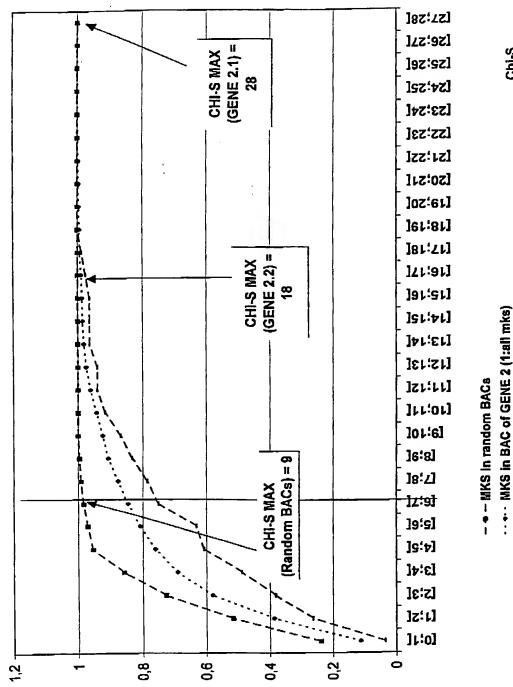


FIGURE 16B

Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHORUSEI.

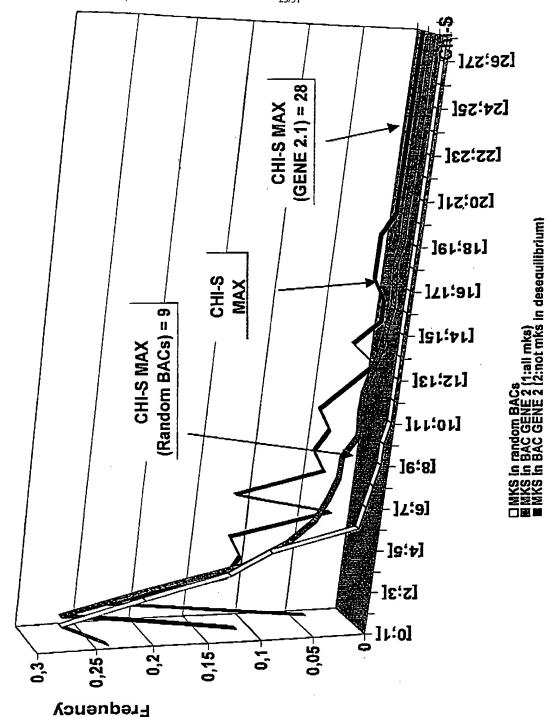
Assignee: Genset Corpo Our Ref.: 55.US4.DI



Estimated cumulative distribution function

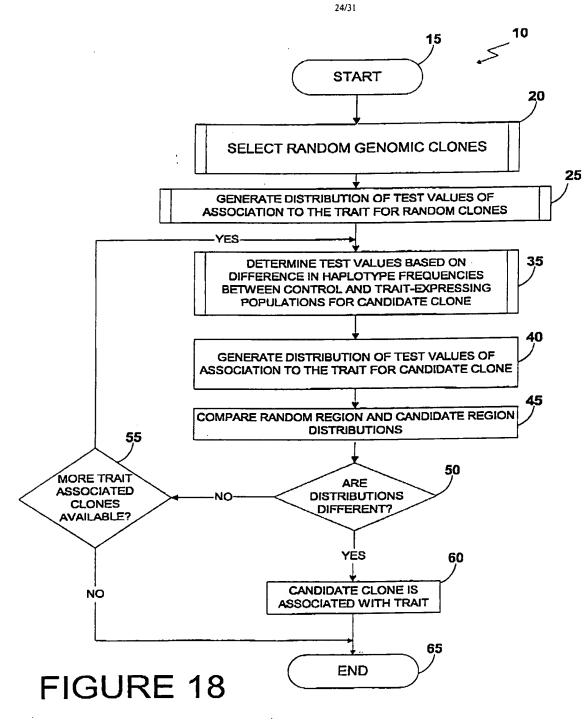
--- MKS in BAC of GENE 2 (2: mks not desequilibrium)

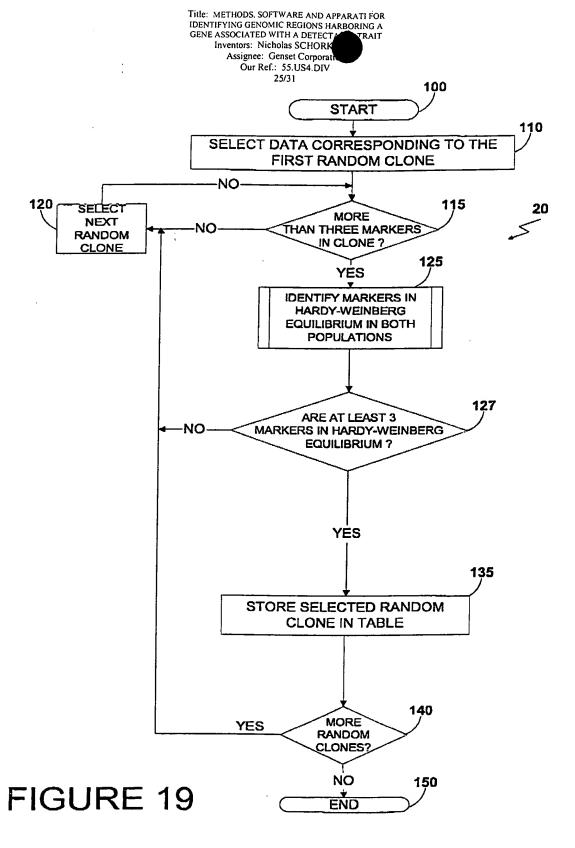
Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECT OF TRAIT Inventors: Nicholas SCHORI Assignee: Genset Corporation of the Corporation of the

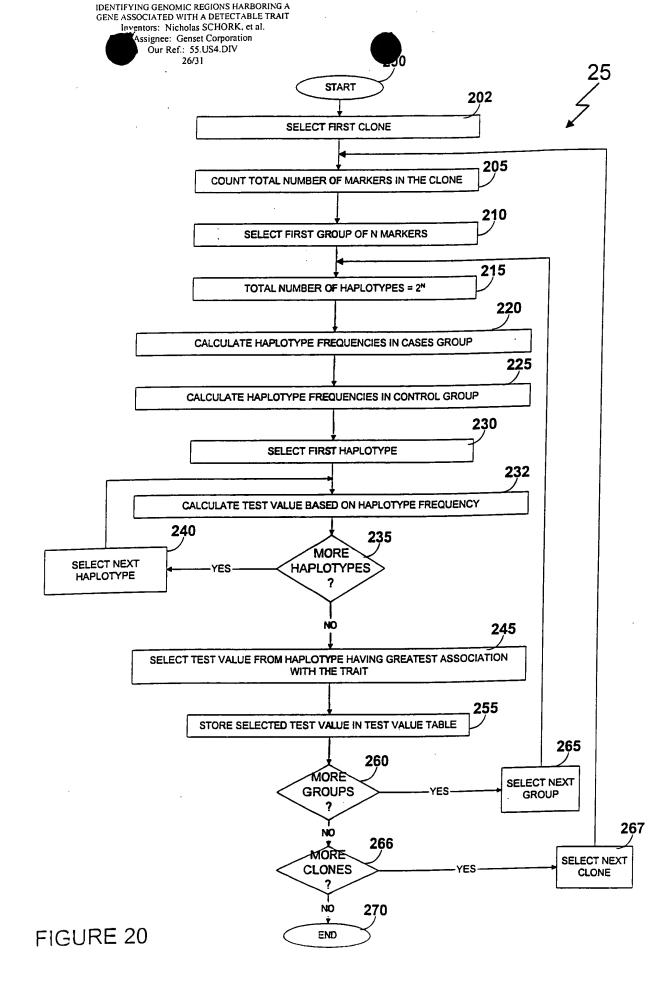


Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMY GIONS HARBORING A GENE ASSOCIATED WETECTABLE TRAIT Inventors: Nich CHORK, et al.

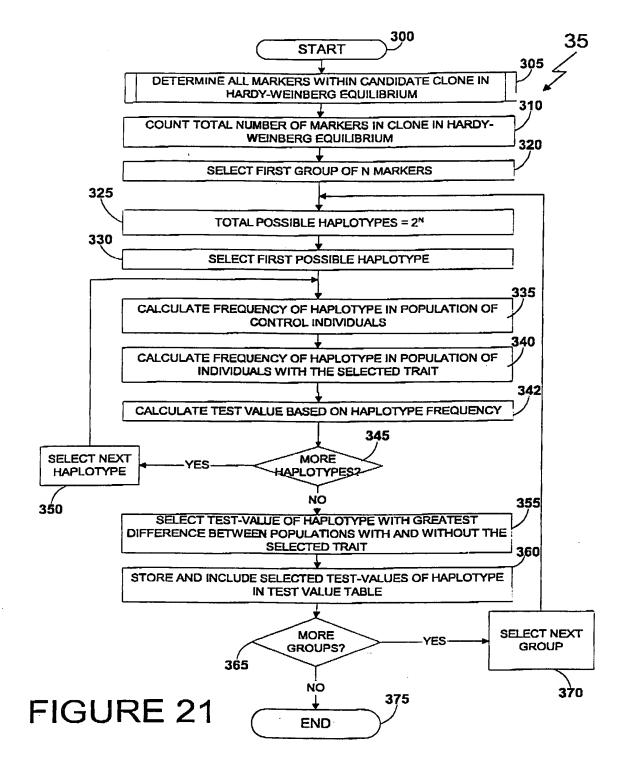
Assignee: Genset Corporation
Our Ref.: 55.US4.DIV







IDENTIFYING GENOMIC REGIONS HARBORING A
GENE ASSOCIATED WITH A DETECTABLE TRAIT
Inventors: Nicholas SCHOPE et al.
Assignee: Genset Corr
Our Ref.: 55.US4.



Title: METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIO ARBORING A BLE TRAIT Inventors: Nicholas SC., et al. Assignee: Genset Corporation Our Ref.: 55.US4.DIV 28/31

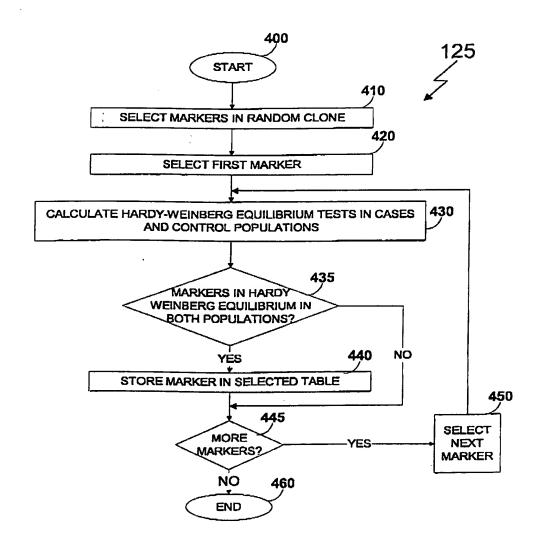


FIGURE 22

Title: METHODS, SOFTWARE AND ALL I FOR IDENTIFYING GENOMIC REGIONS HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT Inventors: Nicholas SCHORK, et al.

Assignee: Genset Corporation
Our Ref.: 55.US4.DIV

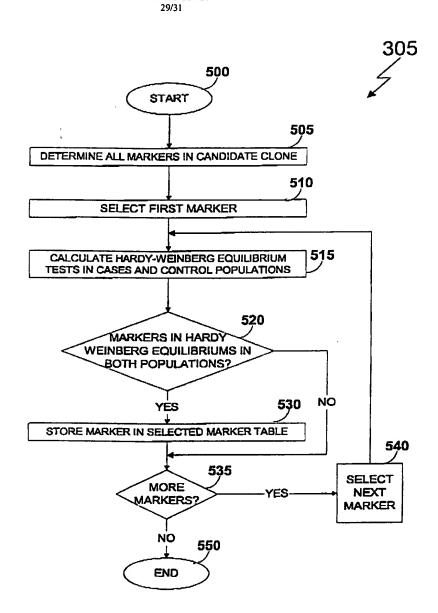


FIGURE 23

Title: METHODS, SOFTWARE AND APPARATION OF IDENTIFYING GENOMIC REGIONS HARBOGENE ASSOCIATED WITH A DETECTABLE Inventors: Nicholas SCHORK, et al.

Assignee: Genset Corporation
Our Ref.: 55.US4.DIV
30/31

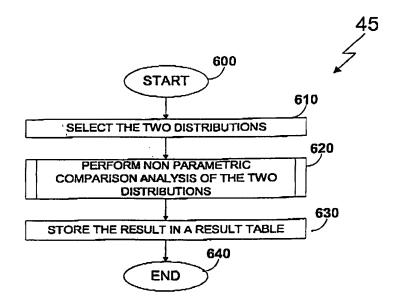


FIGURE 24

Title: METHODS TOFTWARE AND APPARATI FOR IDENTIFYING A HIC REGIONS HARBORING A HITH A DETECTABLE TRAIT holas SCHORK, et al.

Assignee: Genset Corporation
Our Ref.: 55.US4.DIV

